

Work Order ID 57157

March 24, 2010 8:43:25 AM



Page 1

Item ID: D206-642-341

Accept



Setup Start



Revision ID:

Stop



Item Name: Replacement Skidtube

Start Date: 24/03/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 07/04/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan: *PL*Date: *10324*

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D2650

F

100

0.00



DOCUMENT CONTROL

DC

0.00

Memo

Document Control

Photocopy bluefile and create labels per PPP D206-642-341 CHG003

N/A *HA*

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|--------------------|
| 110 | Skidtubes | 0.00 | | | | | | | |
| | Skidtubes | | | | | | | | |
| Skidtubes | Memo | 0.00 | | | | | | | |
| | 1-Deburr Fwd edge of tube | | | | | | | | |
| | 2-Remove ridge on inside of Fwd edge of tube as per Dwg D2650 | | | | | | | | |
| | 3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required. A/R <input type="checkbox"/> Aluminum Rod <input checked="" type="checkbox"/> <i>M112507 / M113207</i> | | | | | | | | <i>BE 10-03-30</i> |
| | 4-Grind weld flush to cap on top surface only. | | | | | | | | <i>BE 10-03-30</i> |
| | 5-Cut aft end to length as per dwg D2650 | | | | | | | | |
| | 6-Drill pilot holes using drill Jig DT8168A (A, & B) and DT8025. Open to Ø0.312" | | | | | | | | |
| | 7-Drill holes for wearplates using DT 8028-5. Open to Ø 0.297". | | | | | | | | |
| | 8-Open Aft Cap Hole using #6 Drill Bit | | | | | | | | |
| | 9-Open holes for Tow Ring to Ø0.625" as per Dwg D2650, D2650-5 Drilling Detail | | | | | | | | |
| | 10-Remove inner indexing ridge on aft end of skidtube as per Dwg D2650 | | | | | | | | |
| | 11-Deburr and Blow out all chips from inside the tube | | | | | | | | |

> DP 10-3-30

DP 10-3-30

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Revision ID:

Item Name: Replacement Skidtube

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Start Date: 24/03/2010 Start Qty: 1.00



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Required Date: 07/04/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

1 10/3/31

130

Skidtubes

0.00



Skidtubes

Memo

0.00

Skidtubes

1-Open holes to finished size as per Dwg D2650, D2650-5 Drilling Detail (without cutting fluid)

2-Countersink crossbolt spacer holes as per Dwg D2650(without cutting fluid)

3-Deburr. Blow out chips. Grind alodine off around crossbolt spacer.

4-Bond D2654-5 web in place as per QSI 015Ensure holes line upAllow 12 Hrs. cure time before cutting

Start Date: 10-3-31 Time: 9:09

Finish Date: 10/04/10 Time: 8:10 AM

A/R Sikaflex-291 112429

Sikaflex expiry date: 10-5-20

1 - - Ann 10-3-31

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Start Date: 24/03/2010 Start Qty: 1.00

Required Date: 07/04/2010 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

8/10/05

Memo

0.00

70

150



Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Prep per QSI 005 and Insert cross bolt spacers D2649. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod.

A/R ☐ Aluminum Rod ☒ m112507

2-Grind welds flush as per Dwg D2650. Masking Tape access to inside of the Skidtube

3-Counterbore 5/16" x 0.750" deep as per Dwg D2650 Debur

4- Install nut plate as per dwg

71

BE 10/04/05

DP 10-4-5

| W/O: | | WORK ORDER CHANGES | | | | | |
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Stop



Start Date: 24/03/2010 Start Qty: 1.00



Cust Item ID:

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Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

160



HandFinish

HandFinishing

0.00

Memo

0.00

Hand Finishing

Install D2680-041 Nut Plate as per Dwg D2650

Handwritten: 10-04-05
N/A done on seq #150
DP 10-4-5

170



QC

Quality Control

QC10- Inspect visual per QSI004- ground welds

0.00

Memo

0.00

Handwritten: 8/10/04/06

180



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Handwritten: 8/10/04/06



| W/O: | | WORK ORDER CHANGES | | | | | |
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Customer:

Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

190

Pressure Wash per QSI005 4.3

0.00



HandFinish

Memo

0.00

Hand Finishing

Brush alodine tube on crossbolt spacer area, do not acid etch, do not dip tube in tank.

BR 10-4-7 D

200

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME: 10:45am
OVEN TEMPERATURE: 320°C
FINISH TIME: 11:15am

=> Jd 10/04/07

1 0

210

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

BR 10-4-8

0 0

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Cust Item ID:

Required Date: 07/04/2010 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

220

0.00



HandFinish

HandFinishing

Memo

0.00

Hand Finishing

1-Install inserts & wearpads as per dwg D2922. Use a drop of Sikaflex inside insert holes before installing wearpad/wearplate.

A/R ☐ Sikaflex-291 ☒ M1127124Sikaflex expiry date: ☐ 10/10/08

2-Install O-Rings D2651-3 on plugs D2651-1 with Petroleum Jelly and install plugs as per Dwg D2650. Clean excess adhesive

3-Install MS27039-4-06 Screw as per DEO 9153

4-Inspect for foreign object per QSI 024

5-Install D2646 Aft Cap and seal with Sikaflex Clean excess adhesive

A/R ☐ Sikaflex-291 ☒ M112424Sikaflex expiry date: ☐ 10/10/08

6-Wing Walk as per Dwg D2650-5 and QSI 005 4.4

Batch: M113545.

10-4-16, ①

10-4-19

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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|----------------|----------------------|------------|------------|---------------|-------|-------|
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| Revision ID: | | | | | Stop | |
| Item Name: | Replacement Skidtube | | | | | |
| Start Date: | 24/03/2010 | Start Qty: | 1.00 | Cust Item ID: | | |
| Required Date: | 07/04/2010 | Req'd Qty: | 1.00 | Customer: | | |
| Reference: | | | | | | |
| Approvals: | Process Plan: | Date: | Tooling: | Date: | Run | Start |
| | QC: | Date: | SPC (Y/N): | Date: | | Stop |

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|
| 230 | QC3- Inspect Part Finish | 0.00 | | | | | | | |
| QC Quality Control | Memo | 0.00 | | | | | | | |
| | | | | | | | | | |
| 240 | QC5- Inspect part completeness to step on W/O | 0.00 | | | | | | | |
| QC Quality Control | Memo | 0.00 | | | | | | | |
| | | | | | | | | | |
| 250 | Packaging | 0.00 | | | | | | | |
| Packaging Packaging | Memo | 0.00 | | | | | | | |
| | Identify and pack for shipping as per PPP D206-642-341 | | | | | | | | |
| | Location: | | | | | | | | |
| | PPP Rev: | | | | | | | | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
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Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

260

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/04/27 *[Signature]*
MF
10-4-29

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube


Comments: IPP Rev: H05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|---|-------------|-----------|-----|---------|------|-------|---------|--------|-----------|-----|------|--------|
| AN960JD416 | | Purchased | No | | | | Each | 8.0000 | 1.0000 | | | |
|  | | | | | | | | | | | | |
| Washer | | | | | | | | | | | | |

WAS 1149 DO 468 J

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST357

111279

113706

8

8

Each

513.0000 2.0000

1

BR 10-4-19.

CCR264SS3-3

Purchased

No



Cherry Rivet

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST311

111548

111827

112314

113539

113973

513

16

1

2

6

488

Each

236.0000 2.0000

AD

10-4-5

CR3212-4-03

Purchased

No



Cherry Rivet

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST311

111359

112314

236

84

152

AD

10-4-5

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
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NOTE: Date & initial all entries

Picklist Print

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March 24, 2010 8:43:28 AM

Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube

Comments: IPP Rev: H 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|--------------------|-------------|--------------|-----|---------|------|-------|---------|--------|-----------|-----|------|--------|
| D2620 | | Manufactured | No | | | | Each | 8.0000 | 1.0000 | | | |



Skidtube, 206 Skidtube

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

55559

8

8

Each

87.0000

1.0000



DP 10-3-30

D2647



Cap

Manufactured No

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

55352

87

87

Each

207.0000

19.0000



I BE 10-03-30

D2649



Cross Bolt Spacer

Manufactured No

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

LG

36013

47112

48271

51529

55000

207

5

18

4

3

177

19 BE 10/04/05

March 24, 2010 8:43:28 AM

Shop Packet Print

Page 2

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube



Comments: IPP Rev: H05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
 IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|---|-------------|--------------|-----|---------|------|-------|---------|--------|---|-----|------|--------|
| D2654-5 | | Manufactured | No | | | | Each | 2.0000 | 1.0000 | | | |
|  | | | | | | | | |  | | | |
| Web | | | | | | | | | | | | |

| Warehouse | Loc Qty | Loc Code |
|----------------|---------|----------|
| Location | | |
| Main Warehouse | | |
| LG | 2 | |
| 46638 | 2 | |

D2680-041

Manufactured No

Each 51.0000 1.0000



Nut Plate

| Warehouse | Loc Qty | Loc Code |
|----------------|---------|----------|
| Location | | |
| Main Warehouse | | |
| ST021 | 51 | |
| 33061 | 1 | |
| 55366 | 50 | |

ALS4-1032-130

Purchased No

220 Each 438.0000 54.0000



Insert

| Warehouse | Loc Qty | Loc Code |
|----------------|---------|----------|
| Location | | |
| Main Warehouse | | |
| ST282 | 438 | |
| 110511 | 438 | |

ALS7-1032-130

113238

54. BL 10-4-12

March 24, 2010 8:43:28 AM

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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March 24, 2010 8:43:28 AM

Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube

Comments: IPP Rev: H 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|--------------------|-------------|-----------|-----|---------|------|-------|---------|-----------|-----------|-----|-------------|--------|
| * AN960C10L | | Purchased | No | | | 220 | Each | 0.0000 | 54.0000 | 54. | BR 10-4-19. | |
| washer | | | | | | | | | | | | |
| AN960JD10L | | Purchased | No | | | 220 | Each | 3,003.000 | 2.0000 | | | |
| Washer | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST348

3003

101291

16

105793

49

110985 ✓

2938

2 BR 10-4-19.

D2646

Manufactured No

220

Each

41.0000

1.0000

Aft Cap

Warehouse Loc Qty Loc Code

Location

Main Warehouse

FP6

36

46327

4

48109

4

52663 ✓

28

1 BR 10-4-19.

Main Warehouse

fp7

5

52663

5

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube


Start Date: 24/03/2010

Required Date: 07/04/2010

Comments: IPP Rev: H05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|---|-------------|--------------|-----|---------|------|-------|---------|----------|-----------|-----|------|--------|
| D2651-1 | | Manufactured | No | | | 220 | Each | 348.0000 | 14.0000 | | | |
|  | | | | | | | | | | | | |

Plug

Warehouse Loc Qty Loc Code

Location

Main Warehouse

FP

141

51530 ✓

141

Main Warehouse

fpa

207

53349

207

D2651-3

Manufactured No

220

Each

537.0000

14.0000



O-Ring

Warehouse Loc Qty Loc Code

Location

Main Warehouse

FP

537

43849

3

46114 ✓

534

14 BR 10-4-19

14. BR 10-4-19

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Page 5

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube

Comments: IPP Rev: H 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
 IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ D3535-11 | Replacement | Mfg/ Manufactured | Bin No | Primary | Last | Route 220 | Unit of Each | Qty on 6.0000 | Remaining 1.0000 | Qty | Date | Status |
|--------------------------------|-------------|----------------------|-----------|---------|------|--------------|-----------------|------------------|---------------------|-----|------|--------|
|--------------------------------|-------------|----------------------|-----------|---------|------|--------------|-----------------|------------------|---------------------|-----|------|--------|

Wearshoe

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

46647 ✓

6

6

220

Each

14.0000

1.0000

D3535-23



Wearshoe

Manufactured

No

1 BL-10-4-19

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

53467

56054 ✓

14

2

12

220

Each

9.0000

1.0000

D3535-35



Wearshoe

Manufactured

No

1 BL 10-4-19

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

51608 ✓

9

9

1 BL 10-4-19

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Shop Packet Print

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157

Parent Item: D206-642-341

Parent Item Name: Replacement Skidtube



Comments: IPP Rev: H 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
 IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Date: 24/03/2010

Required Date: 07/04/2010

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|---|-------------|--------------|-----|---------|------|-------|---------|---------|---|-----|------|--------|
| D3536-11 | | Manufactured | No | | | 220 | Each | 14.0000 | 1.0000 | | | |
|  | | | | | | | | |  | | | |
| Gasket | | | | | | | | | | | | |

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST497A

14

46649 ✓

10

46715

4

1 BL 10-4-19

D3536-23

Manufactured No

220

Each

8.0000

1.0000

Gasket

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

8

30754

1

53468 ✓

7

1 BL 10-4-19

D3536-35

Manufactured No

220

Each

11.0000

1.0000

Gasket

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

11

51628 ✓

11

1 BL 10-4-19.

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 57157



Parent Item: D206-642-341



Parent Item Name: Replacement Skidtube

Start Date: 24/03/2010

Required Date: 07/04/2010

Comments: IPP Rev: H 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM
IPP Rev: I 08-09-29 revF as per dwg DD verified by: EC Est Rev: J 09-03-02 as per DSI9440 rev.a DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

| Component Item ID/ | Replacement | Mfg/ | Bin | Primary | Last | Route | Unit of | Qty on | Remaining | Qty | Date | Status |
|--------------------|-------------|--------------|-----|---------|------|-------|---------|---------|-----------|-----|------|--------|
| D3537-1 | | Manufactured | No | | | 220 | Each | 53.0000 | 6.0000 | | | |
| | | | | | | | | | | | | |
| Wearpad | | | | | | | | | | | | |

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

57510

52

48288

2

55465

50

Main Warehouse

FP17

1

51678

1

D3537-3

Manufactured No

220

Each

24.0000

1.0000



Wearpad

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FP

24

33881

4

35697

20

4 BL 10-4-19

2. BL 10-4-19

1 BL 10-4-19

March 24, 2010 8:43:29 AM

Shop Packet Print

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

| QTY -1 | QTY -3 | QTY -5 | QTY -7 | PART NUMBER | DESCRIPTION |
|-----------|-----------|-----------|-----------|---------------|---|
| X | | | | D2650-1 | SKIDTUBE ASSEMBLY |
| | X | | | D2650-3 | SKIDTUBE ASSEMBLY |
| | | X | | D2650-5 | SKIDTUBE ASSEMBLY |
| | | | X | D2650-7 | SKIDTUBE ASSEMBLY |
| 1 | 1 | 1 | 1 | D2600-1-160 | EXTRUSION |
| 1 | | | | D2654-1 | WEB |
| | 1 | | | D2654-3 | WEB |
| | | 1 | | D2654-5 | WEB |
| | | | 1 | D2654-7 | WEB |
| 1 | 1 | 1 | 1 | D2646 | AFT CAP |
| 1 | 1 | 1 | 1 | D2647 | CAP |
| 17 | 18 | 19 | 23 | D2649 | CROSS BOLT SPACER |
| 16 | 18 | 14 | 22 | D2651-1 | PLUG |
| 16 | 18 | 14 | 22 | D2651-3 | O-RING |
| 1 | 1 | 1 | 1 | D2680-041 | NUT PLATE |
| 2 | 2 | | | D3286-1 | DOUBLER |
| 2 | 2 | | | D3286-3 | STUD |
| 42 | 44 | 54 | 60 | ALS7-1032-130 | INSERT (or AKS4-1032-130, ALS4-1032-130, ALS7-1032-130) |
| 2 | 2 | 2 | 2 | AN960JD10L | WASHER |
| 2 | 2 | 2 | 2 | CCR264SS3-3 | RIVET |
| 2 | 2 | 2 | 2 | CR3212-4-03 | RIVET |
| 2 | 2 | 2 | 2 | MS27039-1-08 | SCREW |
| 1 | 1 | 1 | 1 | MS27039-4-06 | SCREW |
| 1 | 1 | 1 | 1 | AN960JD416 | WASHER |
| 52 | 52 | | | CR3212-4-04 | RIVET |

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 57157
BS10-3-24

RELEASED
08.08.08

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER DART QSI 005 4.4
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) WELD PER DART QSI 004
- 9) DAMAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
- 10) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015
- 11) INSERT D2651-1 PLUG C/W D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)
- 12) DRILL Ø0.297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT8056-1 ON -1 TUBE, DT8056-3 ON -3 TUBE, DT8056-5 ON -5 TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH.
- 13) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

| | | | |
|------------|--|---|--------------|
| F | DRAWING UPDATED TO CURRENT STANDARDS. SHT 6 ADDED. ALL SECTION AND DETAIL VIEWS TRANSFERRED TO SHT 6. SHT 1 IN PL PART D2649 QTY UPDATED. SHT 6 SECT C-C GRIND INSTRUCTIONS DELETED FROM NOTE 7 (SEE NCR 239). | AJS | 08.08.08 |
| E | RMOVE CBORE, CHG DRILL, ADD CHAMFER | CP | 06.03.30 |
| D | REDRAW; INCCRP, DE09136/9153/9163 MOD GROUND HANDLING ON D2650-1/-3 | CP | 04.05.17 |
| C | CHANGE HOLE PATTERN AND FRONT END | DS | 97.10.29 |
| B | AS MANUFACTURED CHANGES | DS | 97.06.26 |
| A | NEW ISSUE | DS | 97.03.25 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE USA, INC PORT HADLOCK, WA | |
| DRAWN | AJS | | |
| CHECKED | | DRAWING NO. | REV. F |
| MFG. APPR. | | D2650 | SHEET 1 OF 6 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | 206/407 SKIDTUBE ASSEMBLIES | NTS |
| DATE | 08.08.08 | COPYRIGHT © 1997 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMERCE OR COMMUNICATION TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC. | |

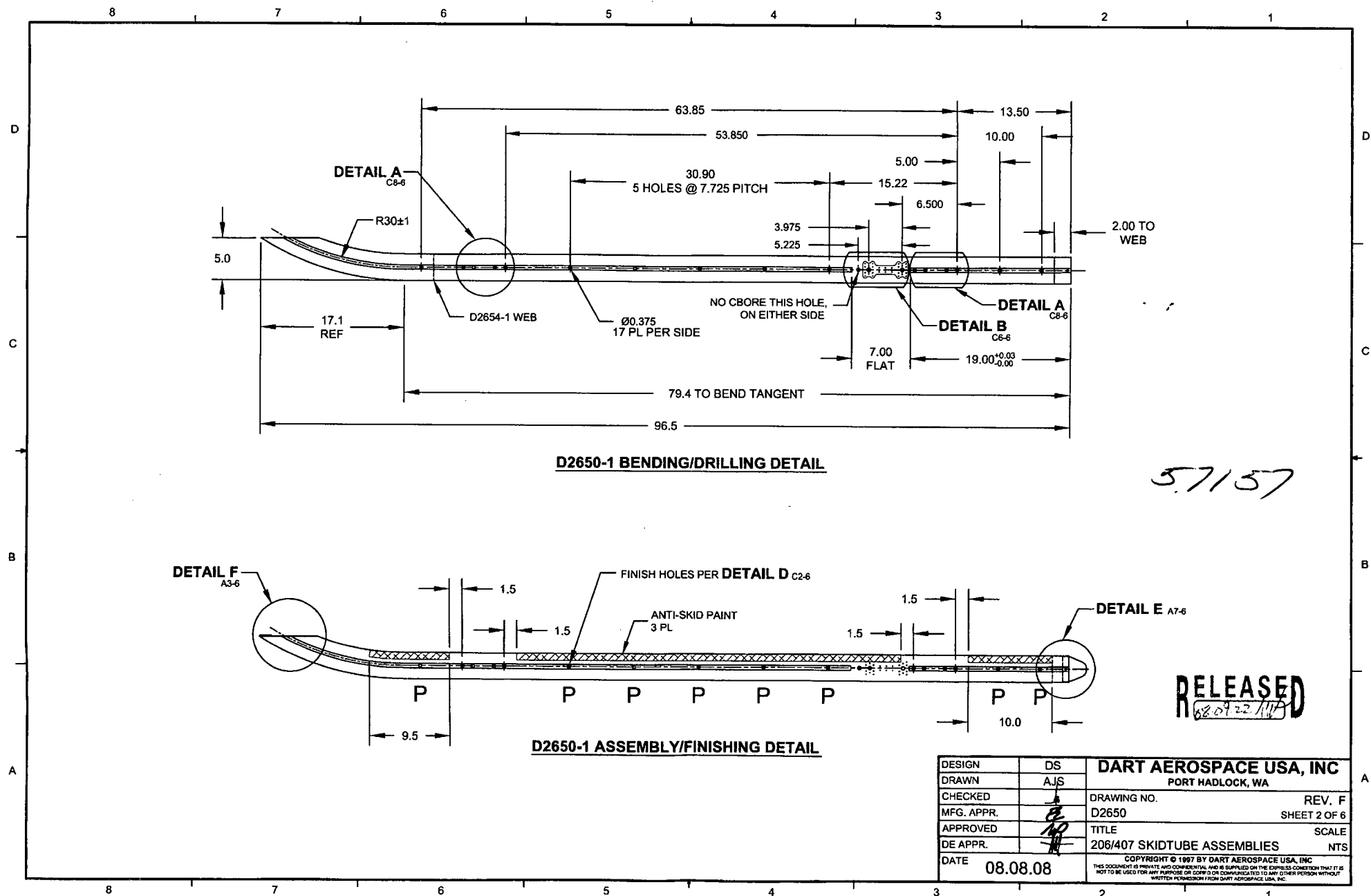
| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries



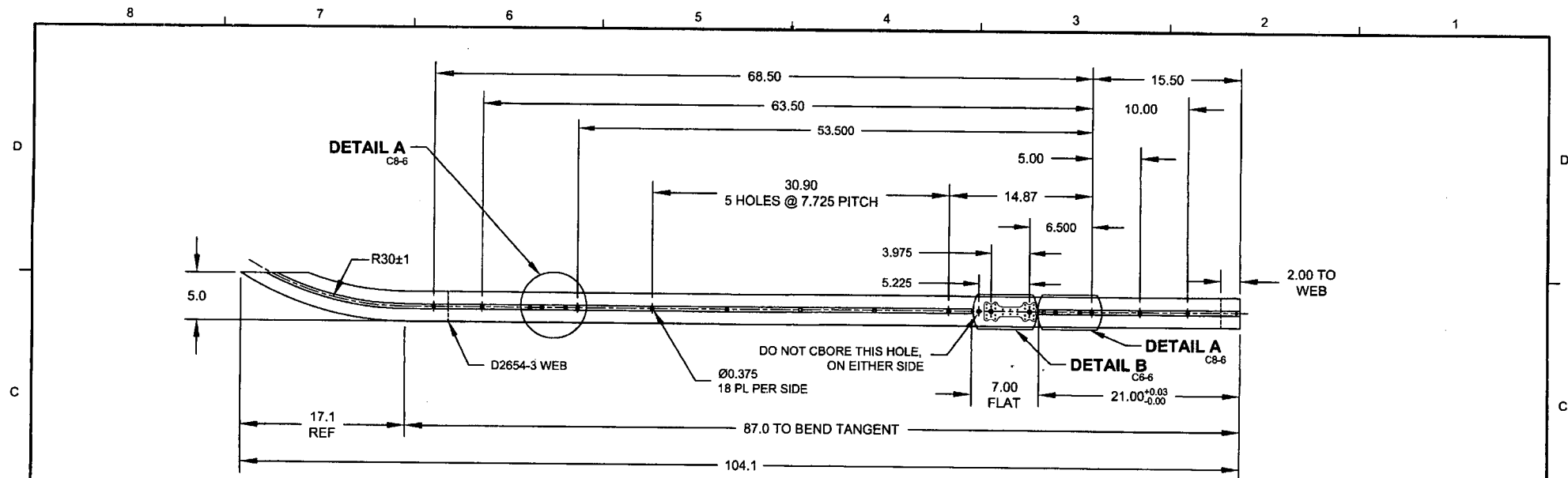
| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

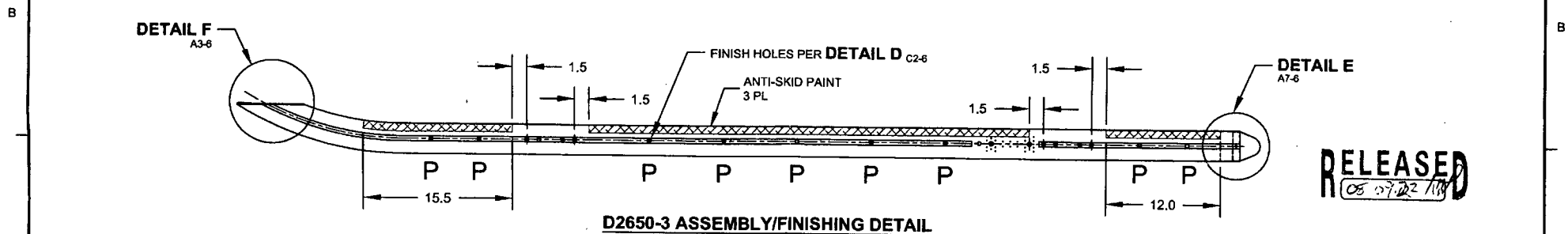
| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries







D2650-3 BENDING/DRILLING DETAIL

57157



D2650-3 ASSEMBLY/FINISHING DETAIL

| | | | |
|--|---|---|--------------|
| DESIGN | DS | DART AEROSPACE USA, INC | |
| DRAWN | AJS | PORT HADLOCK, WA | |
| CHECKED |  | DRAWING NO. | REV. F |
| MFG. APPR. |  | D2650 | SHEET 3 OF 6 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | 206/407 SKIDTUBE ASSEMBLIES | NTS |
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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

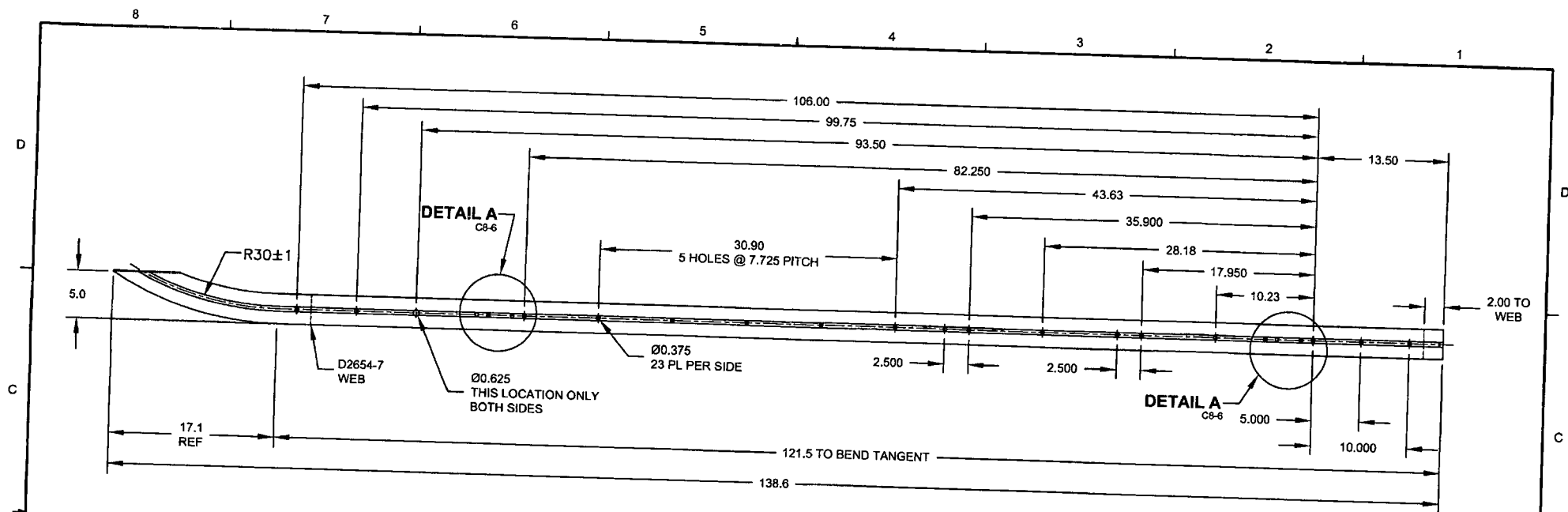
| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

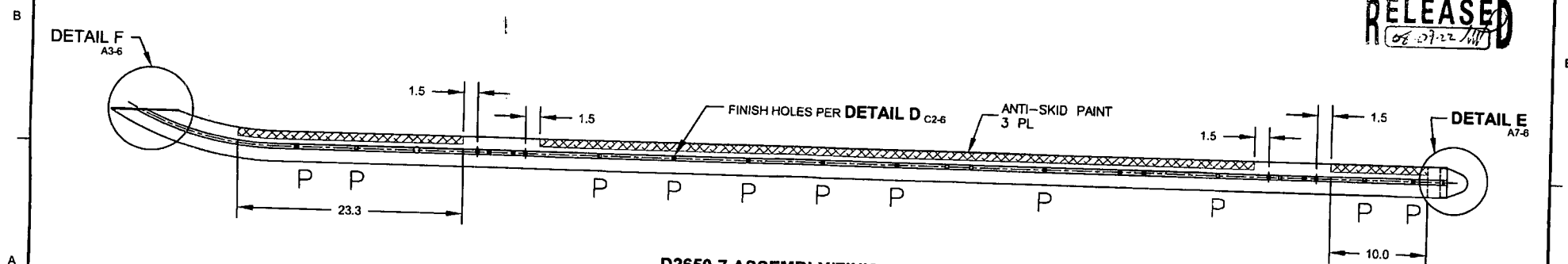
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries



D2650-7 BENDING/DRILL DETAIL



D2650-7 ASSEMBLY/FINISHING DETAIL

57157

RELEASED

| | | | |
|------------|----------|--|--------------|
| DESIGN | DS | DART AEROSPACE USA, INC | |
| DRAWN | AJS | PORT HADLOCK, WA | |
| CHECKED | | DRAWING NO. | REV. F |
| MFG. APPR. | | D2650 | SHEET 5 OF 6 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | 206/407 SKIDTUBE ASSEMBLIES | NTS |
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| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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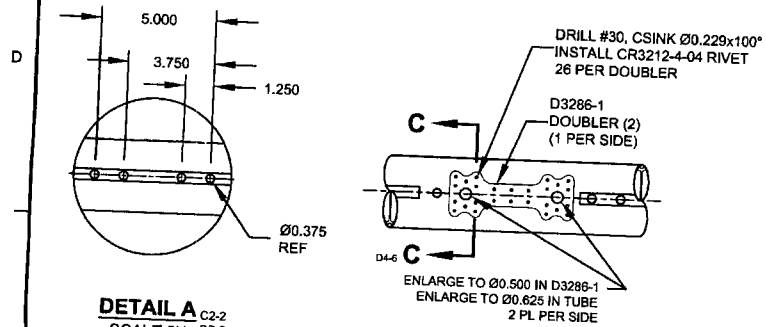
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

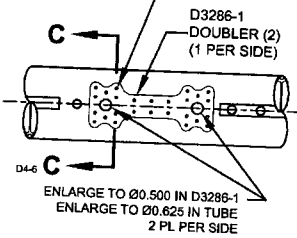
| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

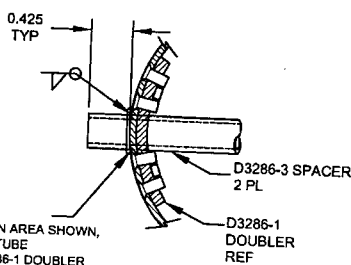


DETAIL A
SCALE 2X
C2-2
D7-2
C2-3
D7-3
D2-4
D7-4
C2-5
D6-5

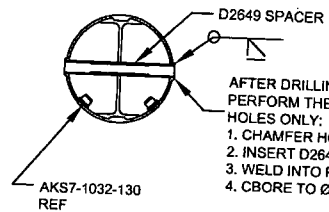


DETAIL B
SCALE 2X
C3-2
C3-3

SECTION C-C C7-6
SCALE NONE

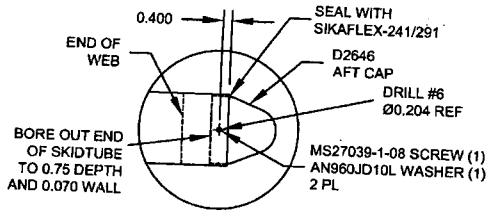


- TO INSTALL D3286-1/3:
1. GRIND OFF FLANGE IN AREA SHOWN, FLUSH WITH ROUND TUBE
 2. LOCATE & DRILL D3286-1 DOUBLER USING DT3286-1T1
 3. ENLARGE HOLES IN D3286-1 TO Ø0.500
 4. ENLARGE HOLES IN TUBE TO Ø0.625 AND CHAMFER HOLE 0.030x45°
 5. RIVET D3286-1 TO TUBE
 6. INSERT D3286-3 SPACER
 7. WELD IN PLACE.

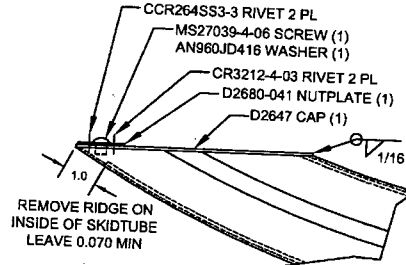
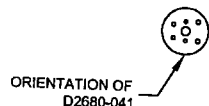


DETAIL D
FOR Ø0.375 HOLES ONLY
SCALE 3X
B4-2
B4-3
B4-4
B4-5

57157






DETAIL E
SCALE 2X
B2-2
B2-3
B1-4
B1-5



DETAIL F
SCALE NONE
B8-2
B8-3
B8-4
B8-5

- DETAIL F NOTES:**
1. CUT TUBE LEVEL
 2. REMOVE RIDGE ON FWD SIDE
 3. LOCATE D2647 (TRIM AS NECESSARY)
 4. WELD D2647 IN PLACE PER DART QSI 004
 5. GRIND FLUSH
 6. RIVET D2680-041 NUT PLATE IN PLACE
- NOTE: MASK THREADS IN D2680-041 PRIOR TO FINISH

RELEASED
08-09-27-19

| | | | |
|---|---|---|--------------|
| DESIGN | DS | DART AEROSPACE USA, INC | |
| DRAWN | AJS | PORT HADLOCK, WA | |
| CHECKED | | DRAWING NO. | REV. F |
| MFG. APPR. |  | D2650 | SHEET 6 OF 6 |
| APPROVED |  | TITLE | SCALE |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

NO. 323

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: JS 5577
Part number: 0206-642-441
Description: 206 skid tube
Welding Process: Tig[☒] Mig[]
Base material: Aluminium
Current: AC[☒] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: pass[☒] fail[]
Penetration: pass[☒] fail[]

UNACCEPTABLE

Cracks: pass[☒] fail[]
Undercut: pass[☒] fail[]
Pin holes: pass[☒] fail[]
Overlap (cold lap): pass[☒] fail[]
Porosity (surface): pass[☒] fail[]
Coloration: pass[☒] fail[]

Qualifier Rat. Int. Date of Test Coupon 10.02.16

Welder Barclay Elliott Date of Test Coupon 10-02-16

The above named individual is qualified in accordance with AWS D17.1.2001 to weld